## **AMENDMENTS TO THE CLAIMS**

# 1. (Original) An 8-oxoadenine compound shown by the formula (1):

$$R^{1}$$
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{3}$ 
 $X^{3}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{4}$ 
 $X^{4$ 

wherein ring A represents a 6-10 membered aromatic carbocyclic ring or a 5-10 membered heteroaromatic ring;

R represents a halogen atom, an alkyl group, a hydroxyalkyl group, a haloalkyl group, an alkoxy group, a hydroxyalkoxy group, a haloalkoxy group, amino group, an alkylamino group, a dialkylamino group, or a cyclic amino group;

n represents an integer of 0-2, and when n is 2, the Rs may be the same or different;

Z<sup>1</sup> represents a substituted or unsubstituted alkylene group or a substituted or unsubstituted cycloalkylene group;

X<sup>2</sup> represents oxygen atom, sulfur atom, SO<sub>2</sub>, NR<sup>5</sup>, CO, CONR<sup>5</sup>, NR<sup>5</sup>CO, SO<sub>2</sub>NR<sup>5</sup>, NR<sup>5</sup>SO<sub>2</sub>, NR<sup>5</sup>CONR<sup>6</sup> or NR<sup>5</sup>CSNR<sup>6</sup> (in which R<sup>5</sup> and R<sup>6</sup> are each independently hydrogen atom, a substituted or unsubstituted alkyl group, and a substituted or unsubstituted cycloalkyl group);

Y<sup>1</sup>, Y<sup>2</sup> and Y<sup>3</sup> represent each independently a single bond or an alkylene group;

X<sup>1</sup> represents oxygen atom, sulfur atom, SO<sub>2</sub>, NR<sup>4</sup> (wherein R<sup>4</sup> is hydrogen atom or an alkyl group) or a single bond;

R<sup>2</sup> represents hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted alkenyl group, a substituted or unsubstituted alkynyl group or a substituted or unsubstituted cycloalkyl group; and

R<sup>1</sup> represents hydrogen atom, hydroxy group, an alkoxy group, an alkoxycarbonyl group, a haloalkyl group, a haloalkoxy group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group or a substituted or unsubstituted cycloalkyl group, or its pharmaceutically acceptable salt.

2. (Currently Amended) The 8-oxoadenine compound according to claim 1, wherein ring A represents a 6-10 membered aromatic carbocyclic ring, or a 5-10 membered heteroaromatic ring containing 1-4 hetero atoms selected from 0-4 nitrogen atoms, 0-2 oxygen atoms and 0-2 sulfur atoms;

R represents a halogen atom, an alkyl group of 1-6 carbons, a hydroxyalkyl group of 1-6 carbons, a haloalkyl group of 1-6 carbons, an alkoxy group of 1-6 carbons, a hydroxyalkoxy group of 1-6 carbons, a haloalkoxy group of 1-6 carbons, amino group, an alkylamino group of 1-6 carbons, a dialkylamino group in which each alkyl moiety has 1-6 carbons, and a cyclic amino group;

n is an integer of 0-2, and when n is 2, Rs may be the same or different;

Z<sup>1</sup> represents an alkylene group of 1-6 carbons or a cycloalkylene group of 3-8 carbons, which is optionally substituted by hydroxy group;

X<sup>2</sup> represents oxygen atom, sulfur atom, SO<sub>2</sub>, NR<sup>5</sup>, CO, CONR<sup>5</sup>, NR<sup>5</sup>CO, SO<sub>2</sub>NR<sup>5</sup>, NR<sup>5</sup>SO<sub>2</sub>, NR<sup>5</sup>CONR<sup>6</sup> or NR<sup>5</sup>CSNR<sup>6</sup> (in which R<sup>5</sup> and R<sup>6</sup> are independently hydrogen atom, a substituted

or unsubstituted alkyl group of 1-6 carbons, and a substituted or unsubstituted cycloalkyl group of 3-8 carbons, wherein the substituents of the alkyl group or cycloalkyl group are selected from a halogen atom, hydroxy group, an alkoxy group of 1-6 carbons, carboxy group, an alkoxycarbonyl group of 2-5 carbons, carbamoyl group, amino group, an alkylamino group of 1-6 carbons, an dialkylamino group in which each alkyl moiety has 1-6 carbons, a cyclic amino group, carboxy group and tetrazolyl group which may be substituted by an alkyl group of 1-6 carbons[[.]]);

Y<sup>1</sup>, Y<sup>2</sup> and Y<sup>3</sup> represent each independently a single bond or an alkylene group of 1-6 carbons; X<sup>1</sup> represents oxygen atom, sulfur atom, SO<sub>2</sub>, NR<sup>4</sup> (wherein R<sup>4</sup> represents hydrogen atom or an alkyl group) or a single bond;

R<sup>2</sup> represents a substituted or unsubstituted alkyl group of 1-6 carbons, a substituted or unsubstituted alkenyl group of 2-6 carbons, a substituted or unsubstituted alkynyl group of 2-6 carbons or a substituted or unsubstituted cycloalkyl group of 3-8 carbons (wherein the substituent in the alkyl group, alkenyl group and alkynyl group is selected from a halogen atom, hydroxy group, an alkoxy group of 1-6 carbons, an acyloxy group of 2-10 carbons, amino group, an alkylamino group of 1-6 carbons, a dialklylamino group in which the each alkyl moiety has 1-6 carbons, and a cyclic amino group); and

R<sup>1</sup> represents hydrogen atom, hydroxy group, an alkoxy group of 1-6 carbons, an alkoxycarbonyl group of 2-5 carbons, a haloalkyl group of 1-6 carbons, a haloalkoxy group of 1-6 carbons, a substituted or unsubstituted aryl group of 6-10 carbons, a substituted or unsubstituted 5-10 membered heteroaryl group containing 1-4 hetero atoms selected from 0-4 nitrogen atoms, 0-2

oxygen atoms and 0-2 sulfur atoms, or a substituted or unsubstituted cycloalkyl group of 3-8 carbons;

and the said substituent in the aryl group, the heteroaryl group and the cycloalkyl group is selected from a halogen atom, hydroxy group, an alkyl group of 1-6 carbons, a haloalkyl group of 1-6 carbons, an alkoxy group of 1-6 carbons, a haloalkoxy group of 1-6 carbons, an alkylcarbonyl group of 2-5 carbons, amino group, an alkylamino group of 1-6 carbons and a dialkylamino group (wherein the each alkyl group has 1-6 carbons),

and the said cyclic amino group represents a 4-7 membered saturated cyclic amino group containing 1-2 hetero atoms selected from 1-2 nitrogen atoms, 0-1 oxygen atom and 0-1 sulfur atom, which may be substituted with a halogen atom, hydroxy group, oxo group, an alkyl group of 1-6 carbons, an alkoxy group of 1-6 carbons, an alkylcarbonyl group of 2-5 carbons or an alkoxycarbonyl group of 2-5 carbons, in the formula (1) of the calim 1,

or its pharmaceutically acceptable salt.

- 3. (Currently Amended) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to claim 1 or 2, wherein X<sup>2</sup> in the formula (1) of the calim 1 is oxygen atom, sulfur atom, NR<sup>5</sup>, SO<sub>2</sub>, NR<sup>5</sup>SO<sub>2</sub> or NR<sup>5</sup>CONR<sup>6</sup>.
- 4. (Currently Amended) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to any of claims 1-3claim 1, wherein Y<sup>3</sup> in the formula (1) of the calim 1 is a single bond, methylene or ethylene.

5. (Currently Amended) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to any of claims 1 to 4claim 1, wherein  $Z^1$  in the formula (1) of the calim 1 is a straight chained alkyelne group of 1-6 carbons which may be substituted with hydroxy group.

- 6. (Currently Amended) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to any of claims 1-5claim 1, wherein X<sup>1</sup> in the formula (1) of the calim 1 is oxygen atom or sulfur atom.
- 7. (Currently Amended) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to any of claims 1-6claim 1, wherein Y<sup>1</sup> in the formula (1) of the calim 1- is a single bond or an alkylene group of 1-6 carbons.
- 8. (Currently Amended) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to any of claims 1-7claim 1, wherein R<sup>1</sup>-in the formula (1) of the calim 1 is hydrogen atom, an alkoxycarbonyl group, hydroxy group, or an alkoxy group.
- 9. (Currently Amended) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to any of claims 1-8claim 1, wherein a group shown by the formula (1) of the calim 1:

$$(R)_n$$
 COOR<sup>2</sup> (2)

(wherein ring A, R, n, Y<sup>3</sup> and R<sup>2</sup> have the same meaning as in the formula (1)claim 1)

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is a group shown by the formula (3) or the formula (4):

$$R^3$$
 $COOR^2$ 
 $R^3$ 
 $COOR^2$ 
 $R^3$ 
 $R^3$ 

(wherein R, n and  $R^2$  have the same meaning as in the formula (1)claim 1, and  $R^3$  is hydrogen atom or an alkyl group).

10. (Original) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to claim 9, wherein R<sup>2</sup> is methyl group or an alkyl group of 2-6 carbons substituted by a dialkylamino group or a cyclic amino group.

- 11. (Original) The 8-oxoadenine compound or its pharmaceutically acceptable salt according to claim 9 or 10, wherein R<sup>3</sup> is hydrogen atom.
- 12. (Currently Amended)A pharmaceutical composition comprising the 8-oxoadenine compound or its pharmaceutically acceptable salt as claimed in any of-claims-1-11-according to claim 1 as an active ingredient.
- 13. (Currently Amended) An <u>immuno-modulator composition</u> comprising the 8-oxoadenine compound or its pharmaceutically acceptable salt as <u>claimed in any of claims 1-11 according to claim 1</u> as an active ingredient, wherein said composition has immuno-modulatory activity.

14. (Currently Amended) A therapeutic or prophylactic agent for viral diseases, cancers or allergic diseases composition comprising the 8-oxoadenine compound or its pharmaceutically acceptable salt as claimed in any of claims 1-11 according to claim 1 as an active ingredient, wherein said composition has antiviral, anticancer or anti-allergy activity.

15. (Currently Amended) A medicament for topical administration composition comprising the 8-oxoadenine compound or its pharmaceutically acceptable salt as claimed in any of claims 1-11 according to claim 1 as an active ingredient, wherein said composition is formulated for topical administration.

#### Claims 16-18 (CANCELLED)

19. (Currently Amended) A method for modulating immune response which comprises administering to a patient, an effective amount of the 8-oxoadenine compound or its pharmaceutically acceptable salt-as-claimed in any of claims 1-11 according to claim 1.

20. (Currently Amended) A method for treating or preventing viral diseases, cancers and allergic diseases which comprises administering to a patient, an effective amount of the 8-oxoadenine compound or its pharmaceutically acceptable salt—as claimed in-any of claims 1-11 according to claim 1.

21. (Currently Amended) A process for preparing the 8-oxoadenine compound as claimed in any of claims 1-11 according to claim 1 which comprises brominating a compound shown by the formula (10):

wherein ring A, n, R,  $R^1$ ,  $R^2$ ,  $X^1$ ,  $X^2$ ,  $Y^1$ ,  $Y^2$ ,  $Y^3$  and  $Z^1$  are the same defined in the claim 1, reacting the resultant of the bromination with a metal alkoxide and then hydrolyzing, or hydrolyzing the resultant of the bromination.

## 22. (Original) A compound shown by the formula (10):

$$R^{1}$$
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{3$ 

wherein ring A, n, R,  $R^1$ ,  $R^2$ ,  $X^1$ ,  $X^2$ ,  $Y^1$ ,  $Y^2$ ,  $Y^3$  and  $Z^1$  are the same defined in the claim 1.

23. (Currently Amended) A process for preparing the 8-oxoadenine compound as described in any of claim 1-11 according to claim 1 which comprises deprotecting a compound shown by the formula (11):

$$R^{1}$$
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{3$ 

wherein ring A, n, R,  $R^1$ ,  $R^2$ ,  $X^1$ ,  $X^2$ ,  $Y^1$ ,  $Y^2$ ,  $Y^3$  and  $Z^1$  are the same defined in the claim 1.

## 24. (Original) A compound shown by the formula (11):

$$R^{1}$$
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{1}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{2}$ 
 $X^{3}$ 
 $X^{3$ 

wherein ring A, n, R,  $R^1$ ,  $R^2$ ,  $X^1$ ,  $X^2$ ,  $Y^1$ ,  $Y^2$ ,  $Y^3$  and  $Z^1$  are the same defined in the claim 1.

25. (Original) A compound or a pharmaceutically acceptable salt thereof selected from the group consisting of the following compounds:

- 2-Butoxy-8-oxo-9-[2-(3-methoxycarbonylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(3-methoxycarbonylmethylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(2-methoxycarbonylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(2-methoxycarbonylmethylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(4-methoxycarbonylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(4-methoxycarbonylmethylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-{2-[4-(2-methoxycarbonylethyl)phenoxy]ethyl}adenine,
- 2-Butoxy-8-oxo-9-[4-(3-methoxycarbonylbenzenesulfonamide)butyl]adenine,
- 2-Butoxy-8-oxo-9-[4-(3-methoxycarbonylmethylbenzenesulfonamide)butyl]adenine,
- 2-Butoxy-8-oxo-9-[4-(3-methoxycarbonylphenylaminocarbonylamino)butyl]adenine,
- 2-Butoxy-8-oxo-9-[4-(3-methoxycarbonylmethylphenylaminocarbonylamino)butyl]adenine,

Methyl [3-({[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethyl]amino}methyl)phenyl]acetate,

[3-({[2-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)ethyl]amino}methyl)phenyl]acetic acid,

Methyl 3-({[3-(6-mino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)propyl]amino}methyl)benzoate,

 $3-(\{[3-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)propyl]amino\} methyl) benzoic acid,\\$ 

Methyl 4-({[3-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)propyl]amino}methyl)benzoate,

4-({[3-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)propyl]amino}methyl)benzoic acid,

Methyl (3-{[[3-(6-amino-2-butoxy-8-oxo-9H-purin-9-yl)propyl](2-morpholin-4-

ylethyl)amino]methyl}phenyl)acetate,

Methyl [3-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)butyl]amino}methyl)phenyl]acetate,

Ethyl 2-[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)ethoxy]benzoate,

3-(Dimethylamino)propyl 2-[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethoxy]benzoate,

Methyl 3-[4-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)butyl]amino}sulfonyl)phenyl]propanoate,

3-[4-({[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)butyl]amino}sulfonyl)phenyl]propanoic acid,

Methyl (3-{[[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-

pyrrolidin-1-ylethyl)amino|sulfonyl}phenyl)acetate,

(3-{[[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-pyrrolidin-1-

ylethyl)amino]sulfonyl}phenyl)acetic acid,

Methyl (3-{[[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-

methoxyethyl)amino]sulfonyl}phenyl)acetate,

(3-{[[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-

methoxyethyl)amino]sulfonyl}phenyl)acetic acid,

Methyl (3-{[[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)butyl](methyl)amino]sulfonyl}phenyl)acetate,

(3-{[[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)butyl](methyl)amino]sulfonyl}phenyl)acetic acid,

Methyl [3-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-

(dimethylamino)-2,2-dimethylpropyl]amino}sulfonyl)phenyl]acetate,

[3-({[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-(dimethylamino)-2,2-

dimethylpropyl]amino}sulfonyl)phenyl]acetic acid,

Methyl [3-({[3-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)propyl]amino}sulfonyl)phenyl]acetate,

Methyl (3-{[[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-hydroxy-2-

methylpropyl)amino]sulfonyl}phenyl)acetate,

(3-{[[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-hydroxy-2-

methylpropyl)amino]sulfonyl}phenyl)acetic acid,

Methyl [3-({[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethyl]amino}sulfonyl)phenyl]acetate,

Methyl [3-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][(2R)-2,3-

dihydroxypropyl]amino}sulfonyl)phenyl]acetate,

[3-({[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][(2R)-2,3-

dihydroxypropyl]amino}sulfonyl)phenyl]acetic acid,

Methyl 3-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-

(dimethylamino)-2,2-dimethylpropyl]amino}sulfonyl)benzoate,

3-({[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-(dimethylamino)-2,2-

dimethylpropyl]amino}sulfonyl)benzoic acid,

Methyl (3-{[[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-

morpholin-4-ylpropyl)amino]methyl}phenyl)acetate,

 $(3-\{[[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](3-morpholin-4-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-butoxy-8-$ 

ylpropyl)amino]methyl}phenyl)acetic acid,

Methyl [3-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-

(dimethylamino)-2,2-dimethylpropyl]amino}methyl)phenyl]acetate,

[3-({[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-(dimethylamino)-2,2-

dimethylpropyl]amino}methyl)phenyl]acetic acid,

Methyl [3-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-(2-

oxopyrrolidin-1-yl)propyl]amino}methyl)phenyl]acetate,

[3-({[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][3-(2-oxopyrrolidin-1-

yl)propyl]amino}methyl)phenyl]acetic acid,

Methyl (3-{[[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-

morpholin-4-ylethyl)amino]methyl}phenyl)acetate,

(3-{[[4-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-morpholin-4-

ylethyl)amino]methyl}phenyl)acetic acid,

Methyl (3-{[[3-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)propyl](3-

morpholin-4-ylpropyl)amino]methyl}phenyl)acetate,

Methyl [3-({[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl][2-(1H-

tetrazol-5-yl)ethyl]amino}methyl)phenyl]acetate,

Methyl (3-{[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethyl]thio}phenyl)acetate,

(3-{[2-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)ethyl]thio}phenyl)acetic acid,

Methyl (3-{[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethyl]amino}phenyl)acetate,

Methyl (3-{[3-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)propyl]amino}phenyl)acetate,

(3-{[3-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)propyl]amino}phenyl)acetic acid,

Methyl [3-({[3-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)propyl]amino}methyl)phenyl]acetate,

([3-({[3-(6-Amino-2-butoxy-8-methoxy-9H-purin-9-yl)propyl]amino}methyl)phenyl]acetic acid,

Methyl (3-{[[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)ethyl](2-

methoxyethyl)amino]methyl}phenyl)acetate,

(3-{[[2-(6-Amino-2-butoxy-8-methoxy-9H-purin-9-yl)ethyl](2-

methoxyethyl)amino]methyl}phenyl)acetic acid,

Methyl (3-{[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethyl]sulfonyl}phenyl)acetate,

Methyl (3-{[[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethyl](methyl)amino]methyl}phenyl)acetate,

(3-{[[2-(6-Amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-

yl)ethyl](methyl)amino]methyl}phenyl)acetic acid,

Methyl 4-[3-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)-2-

hydroxypropoxy]benzoate,

Methyl (3-{[[2-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)ethyl](2-

hydroxyethyl)amino]methyl}phenyl)acetate,

Methyl (3-{[[4-(6-amino-2-butoxy-8-oxo-7,8-dihydro-9H-purin-9-yl)butyl](2-

hydroxyethyl)amino]methyl}phenyl)acetate,

- 2-Butoxy-8-oxo-9-[2-(3-hydroxycarbonylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(3-hydroxycarbonylmethylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(2-methoxycarbonylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(2-hydroxycarbonylmethylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(4-hydroxycarbonylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-[2-(4-methoxycarbonylmethylphenoxy)ethyl]adenine,
- 2-Butoxy-8-oxo-9-{2-[4-(2-hydroxycarbonyolethyl)phenoxy]ethyl}adenine,
- 2-Butoxy-8-oxo-9-[4-(3-hydroxycarbonylbenzenesulfonamide)butyl]adenine,
- 2-Butoxy-8-oxo-9-[4-(3-hydroxycarbonylmethylbenzenesulfonamide)butyl]adenine,
- 2-Butoxy-8-oxo-9-[4-(3-hydroxycarbonylphenylaminocarbonylamino)butyl]adenine and
- 2-Butoxy-8-oxo-9-[4-(3-hydroxycarbonylmethylphenylaminocarbonylamino)butyl]adenine.